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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/736,110	12/12/2003	Nathan R. Carter	A8SJ2357US	3653
23935 7	590 03/22/2005		EXAMINER	
KOPPEL, JACOBS, PATRICK & HEYBL 555 ST. CHARLES DRIVE			MOTTOLA, STEVEN J	
SUITE 107	CLES DRIVE		ART UNIT	PAPER NUMBER
THOUSAND (OAKS, CA 91360		2817	

DATE MAILED: 03/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			1-14
	Application No.	Applicant(s)	
	10/736,110	CARTER, NATHAN R.	
Office Action Summary	Examiner	Art Unit	
	Steven J. Mottola	2817	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with	the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perions - Failure to reply within the set or extended period for reply will, by state that the period for reply will, by state that the material patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a repeply within the statutory minimum of thirty od will apply and will expire SIX (6) MONTItute, cause the application to become ABA	ly be timely filed (30) days will be considered timely. 1S from the mailing date of this communication. NDONED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on This action is FINAL. 2b) ☐ TI Since this application is in condition for allow closed in accordance with the practice under	his action is non-final. vance except for formal matte		
Disposition of Claims			
4) ⊠ Claim(s) <u>1-28</u> is/are pending in the application 4a) Of the above claim(s) is/are withd 5) ⊠ Claim(s) <u>1,2 and 4-28</u> is/are allowed. 6) ⊠ Claim(s) <u>3</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and	rawn from consideration.		
Application Papers			
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) and a Applicant may not request that any objection to the Replacement drawing sheet(s) including the corrupt The oath or declaration is objected to by the	ccepted or b) objected to b he drawing(s) be held in abeyand ection is required if the drawing(s	e. See 37 CFR 1.85(a).) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Bure * See the attached detailed Office action for a line in the internation of the papplication from the International Bure * See the attached detailed Office action for a line in the internation of the papplication from the International Bure * See the attached detailed Office action for a line in the internation of the papplication from the International Bure * See the attached detailed Office action for a line in the internation of the papplication from the International Bure * See the attached detailed Office action for a line in the internation of the papplication from the International Bure * See the attached detailed Office action for a line in the internation of the papplication from the Internation of the Internation of the papplication from the Internation of the Inte	ents have been received. ents have been received in Ap riority documents have been r eau (PCT Rule 17.2(a)).	plication No eceived in this National Stage	
Attachment(s) 1) Moving of Perforances Cited (PTO 892)	A) □ 1-1	mman/(PTO 412)	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date 010204. 		/Mail Date ormal Patent Application (PTO-152)	

Application/Control Number: 10/736,110

Art Unit: 2817

Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

There is no antecedent basis for "said NPN and PNP diversion transistors" at lines 3-4 of the claim; by way of suggestion perhaps this claim was meant to depend from claim 2 rather than claim 1.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Ryat discloses in fig. 2 complementary differential input stages each having a current source. Cross coupled between the current sources are diode loads that compensate for large common mode signals. Voorman et al. disclose complementary input pairs in fig. 1 for instance that each have a current source transistor coupled to their common emitters, and a pair of diode transistors coupled therebetween. The applicant is presumed familiar with his prior patent cited as Carter.

Claims 1-2 and 4-18 are allowed.

None of the references of record generate complementary currents to modulate the tail current as a function of the difference between the common emitter node voltages of the differential pair as required by claims 1 and 28 or using transistors having their bases connected to the respective common emitter nodes of the differential pairs to generate or divert such currents as a function of the voltage difference between the nodes as required by claims 4 and 24.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven J. Mottola whose telephone number is 571-272-1766. The examiner can normally be reached on M-Th from 8 to 5. The examiner can also be reached on alternate Fridays from 8 to 4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert J. Pascal, can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Steven J. Motiola Primary Examination